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Patents

1. Validation of network communication tunnels
2. Traffic engineering for an application employing a connectionless protocol on a network
3. Policy enabled web caching
4. Server site sestructuring
5. Policy validation in a LDAP directory
6. Operating system for use with proctection domains in a single address space
7. Architecture for supporting service level agreements in an IP network
8. Communication network
9. Low overhead continuous monitoring of network performance
10. Error-recovery mechanism using a temporary forwarder in a wireless-ATM network
11. Dynamic selection of network providers
12. Method and system for measuring Web site access requests
13. Dynamic parameter estimation for efficient transport of HPR data on IP
14. Active polling by network LDAP directory
15. Third-party notification by network directory server
16. Method for supporting different service levels in a network using web page content information
17. Protection domains in a single address space
18. Automatic reconfiguration of multipoint communication channels

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1 **Using certes to infer client response time at the web server**

David Olshefski, Jason Nieh, Dakshi Agrawal

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(2.30 MB) Additional Information: full citation, abstract, references, citings, index terms

As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the mean client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated by the Server), an online server-based mechanism that allows web servers to estimate mean client perceived response time, as if measured at the client. Certes is based on a model of TCP that quantifies the effect that connection drops have on mean ...

Keywords: Web server, client perceived response time

2 On nearest neighbor indexing of nonlinear trajectories

Charu C. Aggarwal, Dakshi Agrawal
June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '03**
Publisher: ACM Press
Full text available: pdf(170.48 KB) Additional Information: full citation, abstract, references, citings, index terms

In recent years, the problem of indexing mobile objects has assumed great importance because of its relevance to a wide variety of applications. Most previous results in this area have proposed indexing schemes for objects with linear trajectories in one or two dimensions. In this paper, we present methods for indexing objects with nonlinear trajectories. Specifically, we identify a useful condition called the *convex hull property* and show that any trajectory satisfying this condition can ...

3 Inferring client response time at the web server

David P. Olshefski, Jason Nieh, Dakshi Agrawal
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(693.53 KB) Additional Information: full citation, abstract, references, citings, index terms

As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated by the Server), an online server-based mechanism for web servers to measure client perceived response time, as if measured at the client. Certes is based on a model of TCP that quantifies the effect that connection drops have on perceived client respons ...

Keywords: client perceived response time, web server

4 On the design and quantification of privacy preserving data mining algorithms

Dakshi Agrawal, Charu C. Aggarwal
May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '01**
Publisher: ACM Press
Full text available: pdf(342.77 KB) Additional Information: full citation, abstract, references, citings, index terms

The increasing ability to track and collect large amounts of data with the use of current hardware technology has lead to an interest in the development of data mining algorithms which preserve user privacy. A recently proposed technique addresses the issue of privacy preservation by perturbing the data and reconstructing distributions at an aggregate level in order to perform the mining. This method is able to retain privacy while accessing the information implicit in the original attributes ...

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1 Using certes to infer client response time at the web server

David Olshefski, Jason Nieh, Dakshi Agrawal

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Publisher: ACM Press

As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the mean client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated by the Server), an online server-based mechanism that allows web servers to estimate mean client perceived response time, as if measured at the client. Certes is based on a model of TCP that quantifies the effect that connection drops have on mean ...

Keywords: Web server, client perceived response time

2 Inferring client response time at the web server

David P. Olshefski, Jason Nieh, Dakshi Agrawal
June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1
Publisher: ACM Press
Full text available: pdf(693.53 KB) Additional Information: full citation, abstract, references, citings, index terms

As businesses continue to grow their World Wide Web presence, it is becoming increasingly vital for them to have quantitative measures of the client perceived response times of their web services. We present Certes (CliEnt Response Time Estimated by the Server), an online server-based mechanism for web servers to measure client perceived response time, as if measured at the client. Certes is based on a model of TCP that quantifies the effect that connection drops have on perceived client respons ...

Keywords: client perceived response time, web server

3 Understanding the management of client perceived response time

David Olshefski, Jason Nieh
June 2006 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS '06/Performance '06**, Volume 34 Issue 1
Publisher: ACM Press
Full text available: pdf(343.30 KB) Additional Information: full citation, abstract, references, index terms

Understanding and managing the response time of web services is of key importance as dependence on the World Wide Web continues to grow. We present *Remote Latency-based Management* (RLM), a novel server-side approach for managing pageview response times as perceived by remote clients, in real-time. RLM passively monitors server-side network traffic, accurately tracks the progress of page downloads and their response times in real-time, and dynamically adapts connection setup behavior and w ...

Keywords: QoS, admission control, client perceived response time, web server performance

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1 Measurement and analysis of LDAP performance

Xin Wang, Henning Schulzrinne, Dilip Kandlur, Dinesh Verma

June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

Publisher: ACM Press

Additional Information: full citation, citings, index terms

2 The Tenet real-time protocol suite: design, implementation, and experiences

Anindo Banerjea, Domenico Ferrari, Bruce A. Mah, Mark Moran, Dinesh C. Verma, Hui Zhang

February 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 1

Publisher: IEEE Press

Full text available: pdf(1.34 MB)

Additional Information: full citation, references, citings, index terms

3 Routing reserved bandwith multi-point connections

Dinesh C. Verma, P. M. Gopal

October 1993 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures, protocols and applications SIGCOMM '93**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

Some important classes of multi-point bandwidth-intensive applications like video-conferencing with mixing and the distributed classroom can be characterized as consisting of a broadcast from a source node to several destinations nodes, and point-to-point flows from the destination nodes to the source node. Determining a tree in an arbitrary mesh network which satisfies the bandwidth constraints and minimizes the cost of reserved bandwidth is a NP-hard problem. In this paper, we look at some heu ...

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